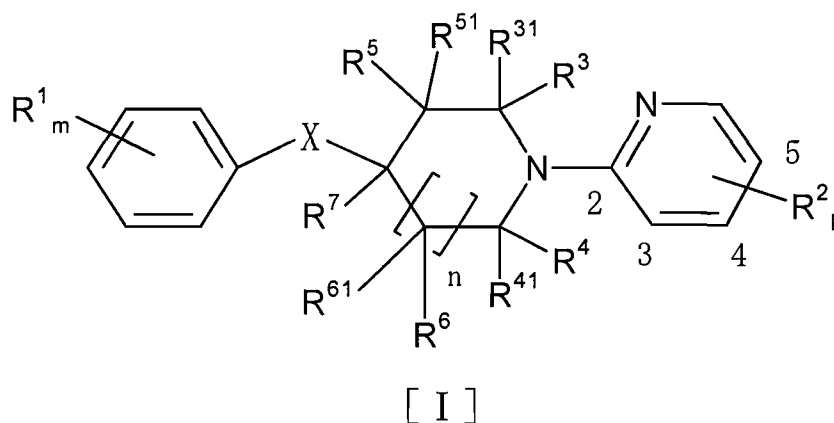


# AMENDMENTS TO THE CLAIMS

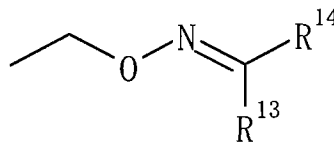
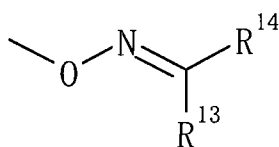
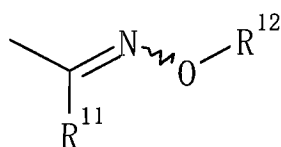
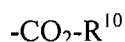
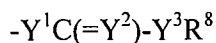
The following listing of claims replaces all prior versions, and listings, of claims in this application.

Claim 1 (**currently amended**): A chemical compound represented by the formula [I]:



wherein  $R^1$  represents a hydroxyl group, a halogen atom, a cyano group, a nitro group, a formyl group, a  $C_{1-6}$  alkyl group which may be substituted by  $G^1$ , a  $C_{2-6}$  alkenyl group, a  $C_{2-6}$  alkynyl group, a  $C_{1-6}$  haloalkyl group, a  $C_{1-6}$  haloalkenyl group, a  $C_{1-6}$  alkylcarbonyl group, a  $C_{1-6}$  alkoxy group which may be substituted by  $G^2$ , a  $C_{1-6}$  haloalkoxy group, a  $C_{2-6}$  alkenyloxy group, a  $C_{2-6}$  haloalkenyloxy group, a  $C_{2-6}$  alkynyloxy group, a  $C_{1-6}$  alkylcarbonyloxy group, a  $C_{1-6}$  alkoxy carbonyloxy group, a  $C_{1-6}$  alkylthiocarbonyloxy group, an amino group which may be substituted by  $G^3$ , a  $C_{1-6}$  alkylthio group, a  $C_{1-6}$  haloalkylthio group, a  $C_{1-6}$  alkylsulfinyl group, a  $C_{1-6}$  haloalkylsulfinyl group, a  $C_{1-6}$  alkylsulfonyl group, a  $C_{1-6}$  haloalkylsulfonyl group, a  $C_{1-6}$  alkylsulfonyloxy group, a  $C_{1-6}$  haloalkylsulfonyloxy group, ~~a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom,~~ a dioxolanyl group which may be substituted by  $G^4$ , a tetrahydrofuranyl group which may be substituted by  $G^4$ , a dihydrofuranyl group, an oxadiazoyl group which may be substituted by  $G^4$ , an

oxazolizinyl group which may be substituted by  $G^4$ , an oxadiazolyl group which may be substituted by  $G^4$ , an oxazolyl group which may be substituted by  $G^4$ , or any one of substituents represented by the following formula:



wherein  $R^8$  and  $R^9$  each independently represents a  $C_{1-6}$  alkyl group,  $Y^1$ ,  $Y^2$ , and  $Y^3$  each independently represents an oxygen atom or a sulfur atom, A represents a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom and a nitrogen atom; a tetrahydrofuranyl group which may be substituted by  $G^4$ ,  $R^{10}$  represents a  $C_{1-6}$  alkyl group, a  $C_{2-6}$  alkenyl group, a  $C_{2-6}$  alkynyl group, a  $C_{1-6}$  alkyl  $C_{1-6}$  alkoxy group, a  $C_{1-6}$  haloalkyl group, or a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom; a tetrahydrofuranyl group which may be substituted by  $G^4$ ,  $R^{11}$  and  $R^{12}$  each independently represents a hydrogen atom, a  $C_{1-6}$  alkyl group, a  $C_{2-6}$  alkenyl group, or a  $C_{2-6}$  alkynyl group,  $R^{13}$  and  $R^{14}$  each independently represents a  $C_{1-6}$  alkyl group, and  $R^{13}$  and  $R^{14}$  may be bound together to form a ring, m represents 0 or an integer of 1 to 5,

$R^2$  represents a halogen atom, a nitro group, a  $C_{1-6}$  alkyl group, a  $C_{1-6}$  alkoxy group, a  $C_{1-6}$  haloalkyl group, a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom, which may be substituted by  $G^4$ ; a pyrazolyl group, or a  $C_{1-6}$  haloalkoxy group, k represents 0 or an integer of 1 to 4,

$R^3$ ,  $R^{31}$ ,  $R^4$ ,  $R^{41}$ ,  $R^5$ ,  $R^{51}$ ,  $R^6$ ,  $R^{61}$ , and  $R^7$  each independently represents a hydrogen atom, a  $C_{1-6}$  alkyl group, a  $C_{1-6}$  alkoxycarbonyl group, or a  $C_{1-6}$  alkoxy group, and both  $R^3$  and  $R^4$ , or both

$R^5$  and  $R^6$ , ~~may be~~ bound together to form ~~a saturated ring,~~ an azabicyclooctane core or an azabicyclononane core.

X represents an oxygen atom, a sulfur atom, a sulfinyl group, or a sulfonyl group,

$G^1$  represents a hydroxyl group, a  $C_{1-6}$  alkoxy carbonyl group, a  $C_{1-6}$  alkoxy group, a  $C_{1-6}$  alkoxy  $C_{1-6}$  alkoxy group, ~~a five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom which may be substituted by  $G^4$ ;~~ or a  $C_{3-6}$  cycloalkyl group,

$G^2$  represents a hydroxyl group, a cyano group, an amino group which may be substituted by  $G^4$ , a  $C_{1-6}$  alkoxy carbonyl group, a  $C_{1-6}$  alkylthio group, a  $C_{1-6}$  alkylsulfonyl group, a  $C_{1-6}$  alkoxy group, a  $C_{1-6}$  alkoxy  $C_{1-6}$  alkoxy group,  $C_{3-6}$  cycloalkyl group, or a  $C_{6-10}$  aryl group which may be substituted by a halogen atom or a  $C_{1-6}$  alkyl group,

$G^3$  represents a  $C_{1-6}$  alkyl group, a  $C_{1-6}$  alkyl carbonyl group, or a  $C_{1-6}$  alkylsulfonyl group,

$G^4$  represents a  $C_{1-6}$  alkyl group, or a  $C_{1-6}$  alkoxy group, and

n represents [[0 or]] 1,

or a salt or an N-oxide of the chemical compound represented by formula (I).

**Claim 2 (previously presented):** A chemical compound according to claim 1, wherein k is at least 1, and an  $R^2$  substituent is at the five position on the pyridine ring.

**Claim 3 (previously presented):** A chemical compound according to claim 1, wherein m is at least 1, and an  $R^1$  substituent is at the two position on the benzene ring.

**Claim 4-6 (canceled).**

**Claim 7 (previously presented):** A chemical compound according to claim 2, wherein m is at least 1, and an  $R^1$  substituent is at the two position on the benzene ring.

Claim 8-13 (**canceled**).

Claim 14 (**new**): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

Claim 15 (**new**): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

Claim 16 (**new**): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 3.

Claim 17 (**new**): A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 7.

Claim 18 (**new**): A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

Claim 19 (**new**): A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

